

# **BONANZA CREEK ENERGY**

**WELD COUNTY**

**SEC 2-T5N-R62W**

**STATE ANTELOPE C13-W43-2HN**

**OWB**

**Design: FINAL SURVEY**

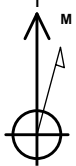
## **Standard Survey Report**

**03 November, 2022**

Project: WELD COUNTY  
Site: SEC 2-T5N-R62W  
Well: STATE ANTELOPE C13-W43-2HN  
Wellbore: OWB  
Design: FINAL SURVEY

PROJECT DETAILS: WELD COUNTY

Geodetic System: US State Plane 1983  
Datum: North American Datum 1983  
Ellipsoid: GRS 1980  
Zone: Colorado Northern Zone  
System Datum: Mean Sea Level



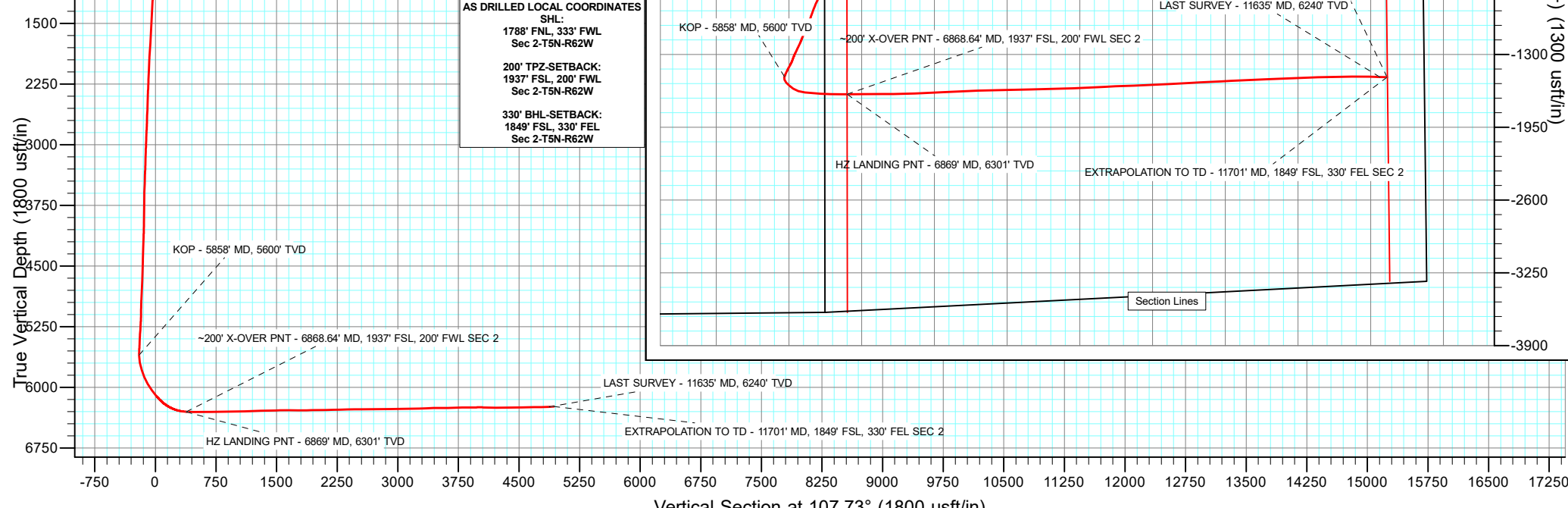
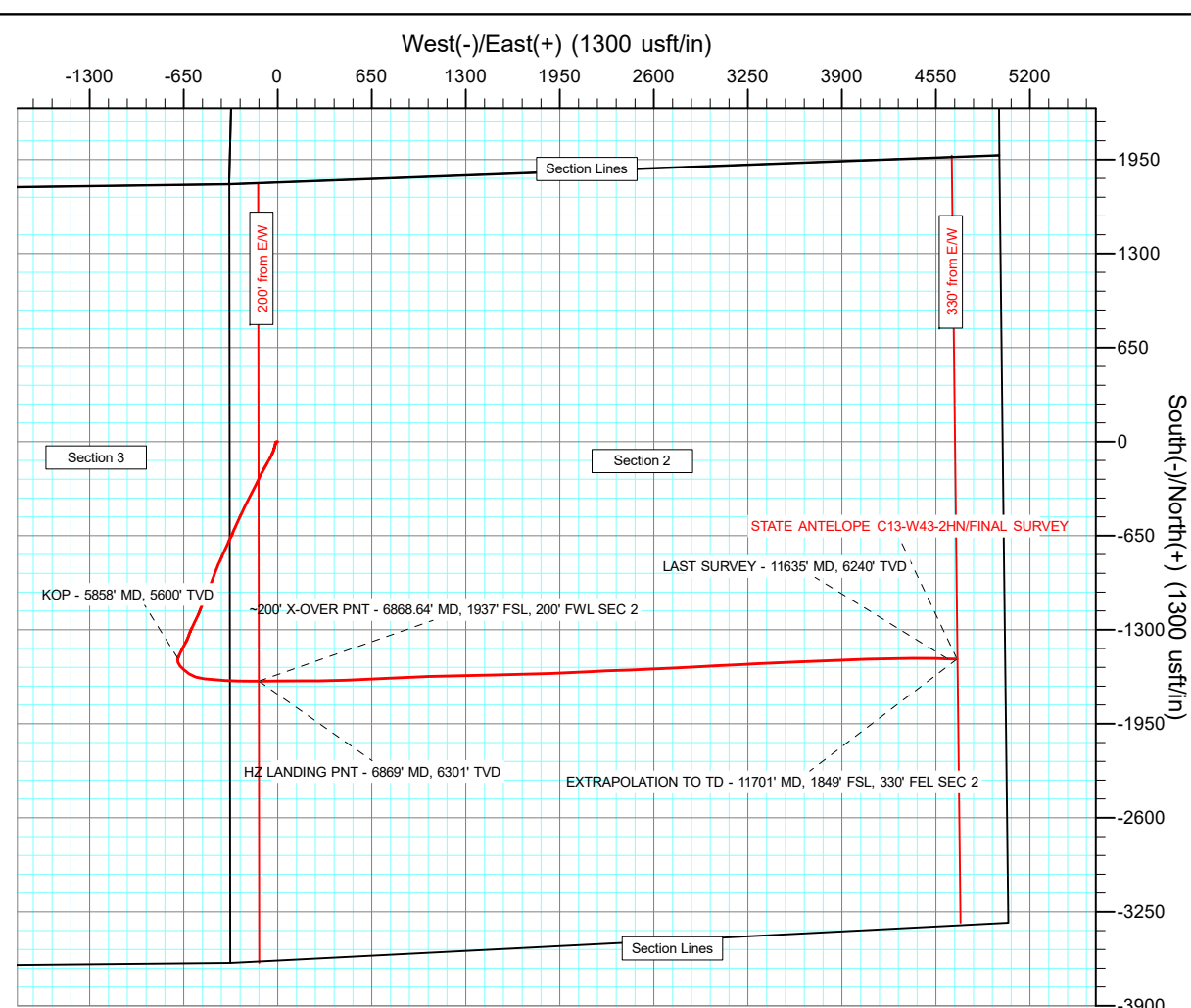
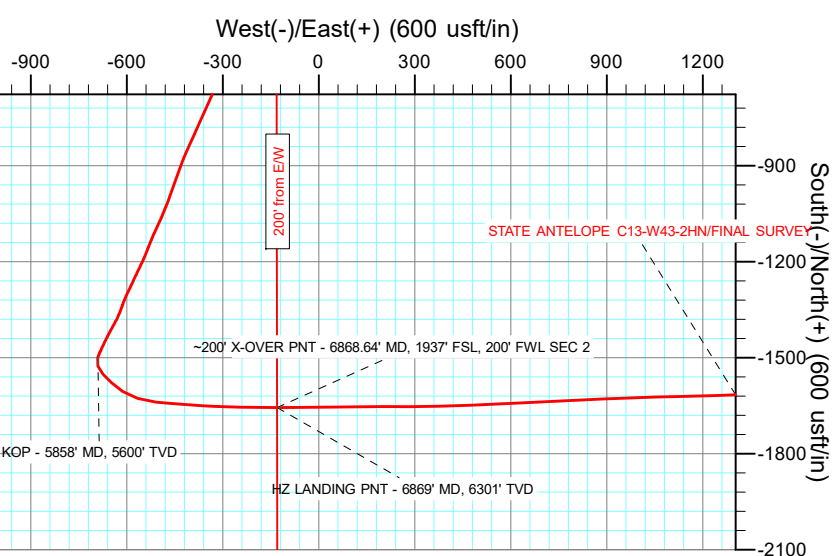
Azimuths to True North  
Magnetic North: 7.52°  
Magnetic Field  
Strength: 51932.0nT  
Dip Angle: 66.71°  
Date: 4/13/2022  
Model: IGRF2020

WELL DETAILS: STATE ANTELOPE C13-W43-2HN

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	1402427.93	3334368.11	40.431850°N	104.298840°W	

ANNOTATIONS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Vsect	Departure	Annotation
5858.00	16.72	200.73	5600.25	-1498.78	-690.61	-201.31	1657.75	KOP - 5858' MD, 5600' TVD
6868.64	86.45	89.82	6301.31	-1655.64	-130.85	379.63	2289.00	~200' X-OVER PNT - 6868.64' MD, 1937' FSL, 200' FWL SEC 2
6869.00	86.48	89.81	6301.33	-1655.64	-130.49	379.97	2289.36	HZ LANDING PNT - 6869' MD, 6301' TVD
11635.00	92.25	91.21	6240.19	-1500.58	4631.20	4868.20	7054.24	LAST SURVEY - 11635' MD, 6240' TVD
11701.00	92.25	91.21	6237.60	-1501.98	4697.13	4931.43	7120.19	EXTRAPOLATION TO TD - 11701' MD, 1849' FSL, 330' FEL SEC 2



## Survey Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE ANTELOPE C13-W43-2HN
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4671.00usft
<b>Site:</b>	SEC 2-T5N-R62W	<b>MD Reference:</b>	KB 25' @ 4671.00usft
<b>Well:</b>	STATE ANTELOPE C13-W43-2HN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEY	<b>Database:</b>	EDT_32Bit_ODBC

<b>Project</b>	WELD COUNTY		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Colorado Northern Zone		Using geodetic scale factor

Site		SEC 2-T5N-R62W			
Site Position:		Northing:	1,404,201.39 usft	Latitude:	40.436731°N
From:	Lat/Long	Easting:	3,334,009.19 usft	Longitude:	104.300043°W
Position Uncertainty:	0.00 usft	Slot Radius:	13.200 in	Grid Convergence:	0.78 °

Well		STATE ANTELOPE C13-W43-2HN				
Well Position	+N/-S	0.00 usft	Northing:	1,402,427.94 usft	Latitude:	40.431850°N
	+E/-W	0.00 usft	Easting:	3,334,368.11 usft	Longitude:	104.298840°W
Position Uncertainty		0.00 usft	Wellhead Elevation:	usft	Ground Level:	4,646.00 usft

<b>Wellbore</b>	OWB				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2020	4/13/2022	7.52	66.71	51,932.04282173

<b>Design</b>	FINAL SURVEY				
<b>Audit Notes:</b>					
<b>Version:</b>	1.0	<b>Phase:</b>	ACTUAL	<b>Tie On Depth:</b>	0.00
<b>Vertical Section:</b>	<b>Depth From (TVD) (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Direction (°)</b>	
	0.00	0.00	0.00	107.73	

<b>Survey Program</b>	<b>Date</b>	11/3/2022			
<b>From (usft)</b>	<b>To (usft)</b>	<b>Survey (Wellbore)</b>	<b>Tool Name</b>	<b>Description</b>	
210.00	1,597.00	SURFACE SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	
1,767.00	11,701.00	FINAL SURVEY (OWB)	MWD OWSG	OWSG MWD - Standard	

<b>Survey</b>										
<b>Measured Depth (usft)</b>	<b>Inclination (°)</b>	<b>Azimuth (°)</b>	<b>Vertical Depth (usft)</b>	<b>+N/-S (usft)</b>	<b>+E/-W (usft)</b>	<b>Vertical Section (usft)</b>	<b>Dogleg Rate (°/100ft)</b>	<b>Build Rate (°/100ft)</b>	<b>Turn Rate (°/100ft)</b>	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
210.00	2.70	270.80	209.92	0.07	-4.95	-4.73	1.29	1.29	0.00	
302.00	3.70	237.60	301.79	-1.49	-9.62	-8.71	2.24	1.09	-36.09	
376.00	5.00	207.50	375.58	-5.63	-13.13	-10.79	3.49	1.76	-40.68	
463.00	7.10	193.00	462.10	-14.24	-16.09	-10.99	2.97	2.41	-16.67	
550.00	9.20	192.50	548.21	-26.27	-18.80	-9.91	2.42	2.41	-0.57	
637.00	10.90	195.70	633.87	-40.98	-22.53	-8.98	2.06	1.95	3.68	
725.00	13.50	199.70	719.88	-58.66	-28.25	-9.04	3.11	2.95	4.55	
812.00	14.60	203.30	804.28	-78.29	-36.01	-10.45	1.61	1.26	4.14	
899.00	17.10	207.30	887.97	-99.73	-46.21	-13.64	3.13	2.87	4.60	

## Survey Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE ANTELOPE C13-W43-2HN
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4671.00usft
<b>Site:</b>	SEC 2-T5N-R62W	<b>MD Reference:</b>	KB 25' @ 4671.00usft
<b>Well:</b>	STATE ANTELOPE C13-W43-2HN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEY	<b>Database:</b>	EDT_32Bit_ODBC

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
986.00	18.20	208.70	970.87	-123.02	-58.61	-18.35	1.36	1.26	1.61
1,074.00	18.30	209.50	1,054.44	-147.10	-72.01	-23.79	0.31	0.11	0.91
1,161.00	20.00	210.00	1,136.63	-171.87	-86.17	-29.73	1.96	1.95	0.57
1,248.00	18.40	208.60	1,218.79	-196.81	-100.19	-35.48	1.91	-1.84	-1.61
1,335.00	17.70	207.10	1,301.50	-220.64	-112.78	-40.23	0.97	-0.80	-1.72
1,423.00	18.20	205.60	1,385.22	-244.94	-124.82	-44.28	0.77	0.57	-1.70
1,510.00	17.80	203.90	1,467.96	-269.35	-136.08	-47.57	0.76	-0.46	-1.95
1,597.00	19.10	206.80	1,550.49	-294.22	-147.88	-51.24	1.83	1.49	3.33
1,767.00	20.01	208.45	1,710.69	-344.62	-174.28	-61.04	0.63	0.54	0.97
1,862.00	19.39	207.56	1,800.12	-372.89	-189.32	-66.75	0.73	-0.65	-0.94
1,955.00	18.71	207.04	1,888.03	-399.86	-203.24	-71.80	0.75	-0.73	-0.56
2,051.00	17.90	206.14	1,979.17	-426.82	-216.74	-76.45	0.89	-0.84	-0.94
2,146.00	17.50	205.49	2,069.68	-452.82	-229.32	-80.51	0.47	-0.42	-0.68
2,241.00	17.02	205.63	2,160.40	-478.25	-241.48	-84.35	0.51	-0.51	0.15
2,335.00	16.54	205.44	2,250.39	-502.74	-253.18	-88.03	0.51	-0.51	-0.20
2,430.00	17.85	204.76	2,341.15	-528.17	-265.09	-91.63	1.40	1.38	-0.72
2,525.00	17.40	204.62	2,431.69	-554.30	-277.10	-95.11	0.48	-0.47	-0.15
2,619.00	16.67	203.72	2,521.56	-579.43	-288.38	-98.20	0.83	-0.78	-0.96
2,714.00	17.84	204.23	2,612.29	-605.17	-299.84	-101.27	1.24	1.23	0.54
2,810.00	17.08	203.26	2,703.86	-631.53	-311.44	-104.29	0.85	-0.79	-1.01
2,905.00	19.13	205.70	2,794.15	-658.38	-323.70	-107.80	2.30	2.16	2.57
2,998.00	17.67	205.06	2,882.40	-684.90	-336.29	-111.71	1.58	-1.57	-0.69
3,118.00	17.97	204.59	2,996.64	-718.23	-351.70	-116.24	0.28	0.25	-0.39
3,212.00	16.31	204.61	3,086.46	-743.42	-363.24	-119.55	1.77	-1.77	0.02
3,307.00	16.15	204.10	3,177.68	-767.60	-374.19	-122.62	0.23	-0.17	-0.54
3,401.00	17.56	203.08	3,267.64	-792.58	-385.08	-125.39	1.53	1.50	-1.09
3,496.00	19.04	205.21	3,357.83	-819.79	-397.30	-128.74	1.71	1.56	2.24
3,591.00	19.96	204.02	3,447.38	-848.62	-410.50	-132.53	1.05	0.97	-1.25
3,686.00	19.88	201.53	3,536.70	-878.46	-423.03	-135.38	0.90	-0.08	-2.62
3,781.00	20.36	200.19	3,625.90	-908.99	-434.66	-137.16	0.70	0.51	-1.41
3,876.00	20.18	199.77	3,715.02	-939.93	-445.91	-138.45	0.24	-0.19	-0.44
3,971.00	19.50	199.62	3,804.38	-970.28	-456.78	-139.55	0.72	-0.72	-0.16
4,065.00	18.22	199.32	3,893.33	-998.93	-466.91	-140.48	1.37	-1.36	-0.32
4,159.00	17.70	202.87	3,982.75	-1,025.96	-477.32	-142.16	1.29	-0.55	3.78
4,254.00	15.68	201.71	4,073.75	-1,051.20	-487.69	-144.35	2.15	-2.13	-1.22
4,349.00	17.79	205.01	4,164.72	-1,076.28	-498.57	-147.08	2.44	2.22	3.47
4,444.00	17.78	204.92	4,255.18	-1,102.59	-510.82	-150.73	0.03	-0.01	-0.09
4,538.00	16.01	202.49	4,345.12	-1,127.58	-521.83	-153.60	2.03	-1.88	-2.59
4,633.00	15.48	201.47	4,436.55	-1,151.49	-531.48	-155.52	0.63	-0.56	-1.07
4,728.00	17.53	201.86	4,527.64	-1,176.57	-541.45	-157.37	2.16	2.16	0.41
4,822.00	18.14	205.28	4,617.12	-1,202.94	-552.97	-160.31	1.29	0.65	3.64
4,916.00	19.11	206.01	4,706.20	-1,230.00	-565.96	-164.45	1.06	1.03	0.78
5,010.00	17.90	204.25	4,795.34	-1,257.00	-578.64	-168.31	1.42	-1.29	-1.87

# Survey Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE ANTELOPE C13-W43-2HN
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4671.00usft
<b>Site:</b>	SEC 2-T5N-R62W	<b>MD Reference:</b>	KB 25' @ 4671.00usft
<b>Well:</b>	STATE ANTELOPE C13-W43-2HN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEY	<b>Database:</b>	EDT_32Bit_ODBC

Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,104.00	17.80	206.37	4,884.81	-1,283.04	-590.96	-172.10	0.70	-0.11	2.26
5,199.00	19.31	203.90	4,974.87	-1,310.41	-603.77	-175.97	1.79	1.59	-2.60
5,294.00	17.68	198.64	5,064.97	-1,338.45	-614.75	-177.89	2.45	-1.72	-5.54
5,389.00	19.27	203.59	5,155.07	-1,366.49	-625.63	-179.72	2.35	1.67	5.21
5,484.00	18.16	209.34	5,245.06	-1,393.76	-639.16	-184.30	2.27	-1.17	6.05
5,578.00	17.45	208.38	5,334.56	-1,418.93	-653.04	-189.85	0.82	-0.76	-1.02
5,674.00	18.86	206.13	5,425.78	-1,445.53	-666.72	-194.77	1.64	1.47	-2.34
5,768.00	19.20	204.65	5,514.64	-1,473.22	-679.85	-198.85	0.63	0.36	-1.57
5,858.00	16.72	200.73	5,600.25	-1,498.78	-690.61	-201.31	3.07	-2.76	-4.35
KOP - 5858' MD, 5600' TVD									
5,863.00	16.58	200.48	5,605.04	-1,500.12	-691.11	-201.38	3.07	-2.71	-5.02
5,958.00	17.14	158.39	5,696.29	-1,525.92	-690.70	-193.13	12.60	0.59	-44.31
6,053.00	20.35	137.96	5,786.33	-1,551.24	-674.46	-169.95	7.64	3.38	-21.51
6,148.00	26.17	133.08	5,873.58	-1,577.84	-648.07	-136.72	6.45	6.13	-5.14
6,243.00	29.89	123.74	5,957.47	-1,605.32	-613.06	-95.00	6.05	3.92	-9.83
6,338.00	36.03	107.70	6,037.29	-1,627.02	-566.62	-44.16	11.19	6.46	-16.88
6,433.00	42.16	95.63	6,111.09	-1,638.68	-508.14	15.10	10.26	6.45	-12.71
6,527.00	48.22	94.17	6,177.31	-1,644.32	-441.72	80.08	6.54	6.45	-1.55
6,621.00	59.69	94.33	6,232.53	-1,649.95	-366.06	153.87	12.20	12.20	0.17
6,716.00	70.20	91.22	6,272.71	-1,654.01	-280.23	236.86	11.45	11.06	-3.27
6,811.00	81.99	90.58	6,295.50	-1,655.45	-188.18	324.96	12.43	12.41	-0.67
6,868.64	86.45	89.82	6,301.31	-1,655.64	-130.85	379.63	7.84	7.73	-1.32
~200' X-OVER PNT - 6868.64' MD, 1937' FSL, 200' FWL SEC 2									
6,869.00	86.48	89.81	6,301.33	-1,655.64	-130.49	379.97	7.84	7.73	-1.31
HZ LANDING PNT - 6869' MD, 6301' TVD									
6,905.00	89.26	89.34	6,302.67	-1,655.38	-94.52	414.15	7.84	7.73	-1.31
6,999.00	89.96	89.70	6,303.31	-1,654.59	-0.53	503.44	0.84	0.74	0.38
7,189.00	90.01	89.60	6,303.36	-1,653.43	189.47	684.05	0.06	0.03	-0.05
7,284.00	91.65	89.70	6,301.98	-1,652.85	284.45	774.35	1.73	1.73	0.11
7,379.00	90.77	88.68	6,299.98	-1,651.51	379.42	864.40	1.42	-0.93	-1.07
7,474.00	90.09	87.57	6,299.26	-1,648.40	474.36	953.88	1.37	-0.72	-1.17
7,569.00	90.93	87.21	6,298.42	-1,644.07	569.26	1,042.95	0.96	0.88	-0.38
7,663.00	91.67	87.37	6,296.29	-1,639.63	663.13	1,131.01	0.81	0.79	0.17
7,852.00	92.33	87.22	6,289.69	-1,630.71	851.80	1,308.00	0.36	0.35	-0.08
7,947.00	90.71	87.80	6,287.17	-1,626.59	946.68	1,397.11	1.81	-1.71	0.61
8,041.00	90.78	88.39	6,285.95	-1,623.46	1,040.62	1,485.64	0.63	0.07	0.63
8,136.00	91.57	88.27	6,284.00	-1,620.70	1,135.56	1,575.22	0.84	0.83	-0.13
8,231.00	89.65	88.75	6,282.99	-1,618.23	1,230.51	1,664.92	2.08	-2.02	0.51
8,326.00	89.55	88.47	6,283.65	-1,615.92	1,325.48	1,754.67	0.31	-0.11	-0.29
8,420.00	90.28	88.92	6,283.79	-1,613.78	1,419.46	1,843.53	0.91	0.78	0.48
8,513.00	90.64	88.79	6,283.04	-1,611.92	1,512.44	1,931.53	0.41	0.39	-0.14
8,703.00	91.42	88.44	6,279.63	-1,607.33	1,702.35	2,111.02	0.45	0.41	-0.18
8,797.00	91.79	88.71	6,277.00	-1,605.00	1,796.28	2,199.78	0.49	0.39	0.29
8,892.00	91.10	87.22	6,274.60	-1,601.62	1,891.19	2,289.15	1.73	-0.73	-1.57

## Survey Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE ANTELOPE C13-W43-2HN
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4671.00usft
<b>Site:</b>	SEC 2-T5N-R62W	<b>MD Reference:</b>	KB 25' @ 4671.00usft
<b>Well:</b>	STATE ANTELOPE C13-W43-2HN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEY	<b>Database:</b>	EDT_32Bit_ODBC

Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
8,987.00	90.62	87.76	6,273.17	-1,597.46	1,986.09	2,378.27	0.76	-0.51	0.57	
9,081.00	90.33	87.43	6,272.39	-1,593.52	2,080.00	2,466.52	0.47	-0.31	-0.35	
9,175.00	90.06	87.14	6,272.08	-1,589.07	2,173.89	2,554.60	0.42	-0.29	-0.31	
9,269.00	90.61	87.35	6,271.53	-1,584.55	2,267.78	2,642.65	0.63	0.59	0.22	
9,364.00	91.29	87.76	6,269.95	-1,580.50	2,362.68	2,731.81	0.84	0.72	0.43	
9,459.00	91.36	88.70	6,267.75	-1,577.56	2,457.61	2,821.33	0.99	0.07	0.99	
9,553.00	90.18	86.66	6,266.49	-1,573.76	2,551.52	2,909.62	2.51	-1.26	-2.17	
9,648.00	90.08	87.36	6,266.27	-1,568.80	2,646.39	2,998.47	0.74	-0.11	0.74	
9,743.00	90.45	87.20	6,265.84	-1,564.29	2,741.28	3,087.48	0.42	0.39	-0.17	
9,838.00	91.79	86.62	6,263.98	-1,559.17	2,836.12	3,176.26	1.54	1.41	-0.61	
9,933.00	90.79	87.45	6,261.84	-1,554.26	2,930.97	3,265.10	1.37	-1.05	0.87	
10,028.00	92.62	86.89	6,259.01	-1,549.57	3,025.81	3,354.01	2.01	1.93	-0.59	
10,122.00	91.27	87.20	6,255.82	-1,544.73	3,119.63	3,441.89	1.47	-1.44	0.33	
10,216.00	90.11	86.98	6,254.69	-1,539.96	3,213.50	3,529.85	1.26	-1.23	-0.23	
10,311.00	89.92	87.16	6,254.67	-1,535.10	3,308.37	3,618.74	0.28	-0.20	0.19	
10,406.00	93.08	86.73	6,252.18	-1,530.04	3,403.19	3,707.51	3.36	3.33	-0.45	
10,500.00	91.78	87.69	6,248.19	-1,525.47	3,496.99	3,795.46	1.72	-1.38	1.02	
10,595.00	89.08	87.80	6,247.48	-1,521.73	3,591.91	3,884.73	2.84	-2.84	0.12	
10,689.00	91.13	87.82	6,247.31	-1,518.14	3,685.83	3,973.10	2.18	2.18	0.02	
10,783.00	88.64	87.74	6,247.50	-1,514.50	3,779.76	4,061.45	2.65	-2.65	-0.09	
10,878.00	88.38	88.18	6,249.97	-1,511.12	3,874.66	4,150.82	0.54	-0.27	0.46	
10,973.00	88.98	88.09	6,252.16	-1,508.03	3,969.59	4,240.29	0.64	0.63	-0.09	
11,068.00	90.92	88.71	6,252.24	-1,505.38	4,064.54	4,329.93	2.14	2.04	0.65	
11,162.00	91.37	87.86	6,250.36	-1,502.57	4,158.48	4,418.55	1.02	0.48	-0.90	
11,256.00	92.03	88.29	6,247.57	-1,499.41	4,252.39	4,507.03	0.84	0.70	0.46	
11,351.00	90.68	88.89	6,245.33	-1,497.07	4,347.33	4,596.75	1.56	-1.42	0.63	
11,446.00	89.45	90.90	6,245.22	-1,496.90	4,442.32	4,687.18	2.48	-1.29	2.12	
11,540.00	92.19	91.18	6,243.87	-1,498.60	4,536.29	4,777.20	2.93	2.91	0.30	
11,635.00	92.25	91.21	6,240.19	-1,500.58	4,631.20	4,868.20	0.07	0.06	0.03	
LAST SURVEY - 11635' MD, 6240' TVD										
11,701.00	92.25	91.21	6,237.60	-1,501.98	4,697.13	4,931.43	0.00	0.00	0.00	
EXTRAPOLATION TO TD - 11701' MD, 1849' FSL, 330' FEL SEC 2										

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude		Longitude
- hit/miss target										
- Shape										
PBHL-STATE ANTELOP	0.00	0.00	6,240.00	-1,467.75	4,697.52	1,401,024.00	3,339,084.90	40.427820°N		104.281967°W
- actual wellpath misses target center by 34.31usft at 11700.57usft MD (6237.62 TVD, -1501.97 N, 4696.70 E)										
- Point										
LP-STATE ANTELOPE (	0.00	0.00	6,295.00	-1,657.62	-130.85	1,400,768.76	3,334,259.73	40.427300°N		104.299310°W
- actual wellpath misses target center by 6.60usft at 6868.01usft MD (6301.27 TVD, -1655.65 N, -131.48 E)										
- Point										

## Survey Report

<b>Company:</b>	BONANZA CREEK ENERGY	<b>Local Co-ordinate Reference:</b>	Well STATE ANTELOPE C13-W43-2HN
<b>Project:</b>	WELD COUNTY	<b>TVD Reference:</b>	KB 25' @ 4671.00usft
<b>Site:</b>	SEC 2-T5N-R62W	<b>MD Reference:</b>	KB 25' @ 4671.00usft
<b>Well:</b>	STATE ANTELOPE C13-W43-2HN	<b>North Reference:</b>	True
<b>Wellbore:</b>	OWB	<b>Survey Calculation Method:</b>	Minimum Curvature
<b>Design:</b>	FINAL SURVEY	<b>Database:</b>	EDT_32Bit_ODBC

Design Annotations					
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates			
		+N/-S (usft)	+E/-W (usft)	Comment	
5,858.00	5,600.25	-1,498.78	-690.61	KOP - 5858' MD, 5600' TVD	
6,868.64	6,301.31	-1,655.64	-130.85	~200' X-OVER PNT - 6868.64' MD, 1937' FSL, 200' FWL SEC 2	
6,869.00	6,301.33	-1,655.64	-130.49	HZ LANDING PNT - 6869' MD, 6301' TVD	
11,635.00	6,240.19	-1,500.58	4,631.20	LAST SURVEY - 11635' MD, 6240' TVD	
11,701.00	6,237.60	-1,501.98	4,697.13	EXTRAPOLATION TO TD - 11701' MD, 1849' FSL, 330' FEL SEC 2	

Checked By: _____	Approved By: _____	Date: _____
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